



/note="Organ: brain; Vector: pCMVSPORT 6; 1st strand cDNA was primed with a NotI-Oligo(dT) primer. Five prime end enriched, double-stranded cDNA was digested with Not I and cloned into the Not I and Eco RV sites of the pCMVSPORT 6 vector. Library was normalized. Library was constructed by Life Technologies. Contact : Feng Liang Life Technologies, a division of Invitrogen 9800 Medical Center Drive Rockville, Maryland 20850, USA Fax : (1) 301 610 8371 Email : filiang@life.com URL : <http://fulllength.invitrogen.com>"

BASE COUNT 271 a 183 c 211 g 215 t 1 others  
ORIGIN

Query Match 23.9%; Score 868; DB 9; Length 881;  
Best Local Similarity 99.7%; Pred. No. 9,1e-97;

Matches 879; Conservative 1; Mismatches 1; Indels 1; Gaps 1;

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QY 2134 AACACAGTACAAATGATTTCTGTCATATGCAAAAAGATTCAGATTAAGGGAT 2193
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Db 61 AACACAGTACAAATGATTTCTGTCATATGCAAAAAGATTCAGATTAAGGGAT 120

QY 2194 TTGGCTCAGAAAGACCTGCAATTCGCAATAGAAAGTCCAGAAAAAACAGAGGTA 2253
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QY 2254 TCGTTGGCAGTTCGGGTGTTTGGACACACACCCCTCTCTCCAGACAGAAATC 2313
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Db 181 TCGTTGGCAGTTCGGGTGTTTGGACACACACCCCTCTCTCCAGACAGAAATC 240

QY 2314 CTCGCCATTGAACCTTGAAGCATTCGTGACATGAGCCCTTTACAGTGCACAGCCCA 2373
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QY 2374 CCCCATTGAGATTTGGTGGATTTTCCGAAGCTGGGACTGAGGAGTCCCTTGTA 2433
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Db 301 CCCCATTGAGATTTGGTGGATTTTCCGAAGCTGGGAGTCCCTTGTA 360

QY 2434 CTCACATTTGGGCGCTCTGTCATTAACAAAAAAGATTCCTCGGATATGGGCC 2493
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Db 361 CTCACATTTGGGCGCTCTGTCATTAACAAAAAAGATTCCTCGGATATGGGCC 420

QY 2494 AGACGGCAACCAAGACCCGCTTCAATATGTTCAACTGAATCTCAGATGAGAG 2553
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QY 2554 AGAAGAAACGGAAGAGATTTATTTGTATAGCAAACTCTTAACTGAGGAGT 2613
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Db 541 CATCTACTTTTTCCTCCCTTACAAAAAAGAAATATAAAGCCGGGTTTTTG 599

QY 2674 CAACATGTTTCAAAATATGCTGGTGAATGAGAGATTTTGGGAGGAAAGAGA 2733
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QY 2734 GAGAGGAAAGAGATGAGATTTTCCCGTCTAACAGAAAGAGGATCAACTCTATATG 2793
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QY 2794 TTTCGACTGATCATTTACATGAGATGCTGATAGTGCAGGGCTTGCCCAACA 2853
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Db 720 TTTCGACTGATCATTTACATGAGATGCTGATAGTGCAGGGCTTGCCCAACA 779

QY 2854 GAGATGACAGAGATCTGAGACCTGGCCTTGTCTCAACATTCGCAAGACATTT 2913
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Db 780 GAGATGACAGAGATCTGAGACCTGGCCTTGTCTCAACATTCGCAAGACATTT 839
  
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QY 2914 ATCAATCCCTATTTCTAGAGGATTAATGAAATGACCAT 2955  
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# RESULT 2

AUI33286

LOCUS

DEFINITION

sequence.

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

TITLE

JOURNAL

COMMENT

REFERENCE

AUTHORS

1 (bases 1 to 865)

Oca,T., Sugiyama,T., Ishii,S., Suzuki,Y., Salto,K., Yamamoto,J., Nishikawa,T., Nakamura,Y., Nagai,T., Sugano,S., Masuno,Y. and Isogai,T.

HRI human cDNA project (Oca,T., Sugiyama,T., Ishii,S., Suzuki,Y., Salto,K., Yamamoto,J., Nishikawa,T., Nakamura,Y., Nagai,T., Sugano,S., Masuno,Y., Isogai,T.)

Unpublished (2000)

Contact: Takao Isogai

Genomics Laboratory

Helix Research Institute

1532-3 Yana, Kisarazu, Chiba 292-0812, Japan

Tel: 81-438-52-3975

Fax: 81-438-52-3986

Email: [genomics@hri.co.jp](mailto:genomics@hri.co.jp)

HRI human cDNA project; 5'- & 3'-end one pass sequencing: Helix Research Institute; cDNA library construction: Department of Virology, Institute of Medical Science, University of Tokyo, and Helix Research Institute.

Location/Qualifiers

1. 865

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone="NT2RP4001717"

/clone\_id="NT2RP4"

/cell\_type="teratocarcinoma"

/cell\_line="NT2"

/note="Vector: pME18SFL3; mRNA from NT2 neuronal precursor cells after 2-weeks retinoic acid (RA) induction"

BASE COUNT 197 a 173 c 212 g 279 t 4 others

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Best Local Similarity 98.0%; Pred. No. 1,4e-88;

Matches 850; Conservative 0; Mismatches 13; Indels 4; Gaps 4;

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QY 1181 ATTTGTAACAGCCGTCGTCTTTTATGTGAGATCATACACATGATCACTTTT 1240
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QY 1241 TGAACGTGTTCTTTTATTTCTTAGAGGATTTTGGAGGCTTTGGGAGCTTTTCAT 1300
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Db 121 TGAACGTGTTCTTTTATTTCTTAGAGGATTTTGGAGGCTTTGGGAGCTTTTCAT 180

QY 1301 TAGGGCAAAATTTGCTCGTGTGTCGACGCAAGTCCACGAAATTTGGAAGTATCCCGT 1360
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QY 1361 TCTGGAAGTCAATTTATTTGTTGAGCATTACTGCTGTATAGCTTCCCTAATCCATAC 1420
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 OY 1481 CTTCTCTCTTTGACTACAGAAATGACATGAAATGCAATTAATTTGCGATGACATTC 1540  
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 DB 361 CTTCTCTCTTTGACTACAGAAATGACATGAAATGCAATTAATTTGCGATGACATTC 420  
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 DB 481 ATTAAATCATATATGACAGATATTCACCTTTGCGATCAAGTTCCATCAGCCTTTTCAT 540  
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 DB 541 CCCGAGCAGTGGCATTGAGCAGCATGGCAGAGATGTGGGGATTTGGGGTGGAGCAGCT 600  
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 DB 661 CATTAACCTGGCTTTATGCCATGTTGTGCTGCTGCTAGAGTGTGATGACAAG 720  
 OY 1841 AATGACTGTCTCCCTGGTGTATTTTGTAGCTTACTGAGGCTTGAATATATTTGT 1900  
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 DB 721 AATGACTGTCTCCCTGGTGTATTTTGTAGCTTACTGAGGCTTGAATATATTTGT 778  
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 DB 779 TCCCTTATGCTGAGCAGTACACAGTAA-TGGGTTGAGAGTCCCTTTGGCA-GGGAA 838  
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 VERSION B6697014.1 GI:13962762  
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 ORGANISM Homo sapiens  
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 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 REFERENCE 1 (bases 1 to 849)  
 AUTHORS NIH-NCI http://nci.nci.nih.gov/  
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
 JOURNAL Unpublished (1999)  
 COMMENT Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-remail.nih.gov  
 Tissue Procurement: James Cleaver, M.D.  
 cDNA Library Preparation: Life Technologies, Inc.  
 Sequencing by: Incyte Genomics, Inc.  
 Clone distribution: MGC clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
 http://image.llnl.gov  
 Plate: LAM10699 row: e column: 03  
 High quality sequence stop: 845.  
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 Best Local Similarity 98.6%; Pred. No. 2.8e-88;  
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 OY 2177 TCAGAGATTAGTGGATTTGCTCCAGAGAGACCTGACAAATTCAGAAAGTCCAG 2236  
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 OY 2297 TCTTCACGAGAAAGTCTCGGCCATTGAGCTTGAACATTTCTTGACATGAGCCCTT 2356  
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 DB 181 TCTTCACGAGAAAGTCTCGGCCATTGAGCTTGAACATTTCTTGACATGAGCCCTT 240  
 OY 2357 TACAGTACAGACACACCCCAATGAGATTTGTGTGATTTTCCGAAGCTGGAGCT 2416  
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 DB 241 TACAGTACAGACACACCCCAATGAGATTTGTGTGATTTTCCGAAGCTGGAGCT 300  
 OY 2417 GAGGAGTCCCTTGTACTACAAATGGGCGCTCCTTGGCATTTATACAAAAAGATAT 2476  
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 DB 301 GAGGAGTCCCTTGTACTACAAATGGGCGCTCCTTGGCATTTATACAAAAAGATAT 360  
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 DB 421 CTCACAGATGAGAGAGAGAGAAACGGAAGAGATTTATTTGTGAATAGCACACT 480  
 OY 2597 CTTTAACTGAGAGAGTCACTACTTTTTCCTCTTACAAAAAGAGAAATA 2656  
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 DB 481 CTTTAACTGAGAGAGTCACTACTTTTTCCTCTTACAAAAAGAGAAATA 540  
 OY 2657 TAAAGCCGCGTTTTCGAACATGCTTGCATATATGCTGTGG-AATGGAGAGATTGT 2715  
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 OY 2836 CAGGCTTGGC-CCTCAACAGAGATGACAGAGTCTGACAGCTGCTGTTGCTCC 2894  
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 DB 721 CAGGCTTGGCCTCAACAGAGATGACAGAGTCTGACAGCTGCTGTTGCTCC 780  
 OY 2895 AACATTGCAAGACACATTTATCATGCTCTATTCTTGAAGGATTA--CTTTGAATTGAC 2952  
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 DB 781 AACATTGCAAGACACATTTATCATGCTCTATTCTTGAAGGATTAATTGATTGAGC 840  
 OY 2953 CATCTATAA 2961  
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 DB 841 CATCTATAA 849

[illegible]

Db	361	GACGTCTCCCGGAGGGGTTATGTTTGGAGCTTACTGGAGGCTTGGAAATATATGTTCC	420
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Db	421	CCTTATGGCTGACATCATGACCACTGTAATGGTTGGAATGCTTTGGCAGGGAAGCAT	480
OY	1964	TTATGACACACATCCGATTAATGATGATACCTTTCTGGATGCAAAAGAAATTCAC	2023
Db	481	TTATGACACACATCCGATTAATGATGATACCTTTCTGGATGCAAAAGAAATTCAC	540
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OY	2084	CCTGACACAGCAATATGACAGTGGATGATATAGAAAACATGATTAATGAACACGTA	2143
Db	601	CCTGACACAGCAATATGACAGTGGATGATATAGAAAACATGATTAATGAACACGTA	660
OY	2144	CAATGATTTCTCCTGCATATGTCAAAAGAAATCTGAGAGATTAGTGGG--ATTTCGCCCTC	2201
Db	661	CAATGATTTCTCCTGCATATGTCAAAAG--ATCTGAGATTTAGTGGAGATTTCGCCCTC	719
OY	2202	AGAAAGACCTGACAAATTCGCAATAG--AAAGTGCACGAAAAACAAGAAAGTATGTTGG	2260
Db	720	AGAAAGACCTGACAAATTCGCAATAGAAAGTGCACGAAAAACAAGAAAGTATGTTGG	779
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Db	780	CAGTCTCTGGGT--GTGTTTTCGACAGCACACCCCATCTCTCTCCAGCAAGTCTCTGG	839
OY	2319	CCATTTGAA--GGTTGGAAGCAATTCCTT---GACATGAGCCCTTTTACGTGACGACGACCA	2373
Db	840	CCAAATGAAGCCTTCAAGAACATCTTTGAATAAGAACGCCCTTTTACAGTGAACGAACCA	899
OY	2374	CCCC 2377	
Db	900	CACC 903	
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LOCUS	BM542722	1154 bp	mRNA linear EST 20-FEB-2002
DEFINITION	AGENCOURT_6448938 NIH_MGC_71 Homo sapiens	cdna clone	IMAGE:5520896
ACCESSION	BM542722		
VERSION	BM542722.1	GI:18772492	
KEYWORDS	EST.		
SOURCE	human.		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.		
TITLE	1 (bases 1 to 1154)		
JOURNAL	NIH-MGC <a href="http://mgc.ncl.nih.gov/">http://mgc.ncl.nih.gov/</a> .		
COMMENT	National Institutes of Health, Mammalian Gene Collection (MGC)		
	Unpublished (1999)		
	Contact: Robert Strausberg, Ph.D.		
	Email: <a href="mailto:cgapbs-remail.nih.gov">cgapbs-remail.nih.gov</a>		
	Tissue Procurement: ATCC		
	CDNA Library Preparation: Life Technologies, Inc.		
	DNA Sequencing by: Agencourt Bioscience Corporation		
	Clone distribution: MGC clone distribution information can be		
	found through the I.M.A.G.E. Consortium/LNL at:		
	<a href="http://image.lnl.gov">http://image.lnl.gov</a>		
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	High quality sequence stop: 616.		
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DEFINITION	ACCESSION	VERSION	KEYWORDS	SOURCE	ORGANISM	TITLE	JOURNAL	COMMENT
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					Homo sapiens	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.		
						NCI-CCAP http://www.ncbi.nlm.nih.gov/ncicgap.		
						National Cancer Institute, Cancer Genome Anatomy Project (CGAP).		
						Tumor Gene Index		
						Unpublished (1997)		
						Contact: Robert Strausberg, Ph.D.		
						Email: cgapbs-rt@mail.nih.gov		
						Tissue Procurement: Elias Campo, M.D., Michael R. Emmert-Buck, M.D., Ph.D.		
						CDNA Library Preparation: M. Bento Soares, Ph.D.		
						CDNA Library Arraying: Greg Lennon, Ph.D.		
						DNA Sequencing by: Washington University Genome Sequencing Center		
						Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/ILM at:		
						www.bio.lnl.gov/bbrp/image/image.html		
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						Seq primer: -40UP from Glibco		
						High quality sequence stop: 449.		
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ORIGIN								
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Db 740 GTTCCCCCNATGGCGTCGCATGATGACCGGTACATGGTTCGCCAGATGCC-TTGGCAGGTCA	682							
OY 1959 GGCAATTATGAAGCACACATCCGATTAAATGGATACCCTTTCTTGATGCAAAAGAAGAA	2018							
Db 681 GGCAATTATGAAGCACACATCCGATTAAATGGATACCCTTTCTTGATGCACAAGAAAGA	622							
OY 2019 TTCACTCATACCACCTGGCTGGCTGACGTTATGAGACTCGAAGGATGATCTCCCTTA	2078							
Db 621 TTCACTCATATCATCTCTGGCTGGCTGACGTTATGAGACTCGAAGGATGATCTCCCTTA	562							
OY 2079 GCTGCTCGACACAGGACAAATATGACAGTGGATGATATAGAAACATGATTAATAAACCC	2138							
Db 561 GCTGCTCGACACAGGACAAATATGACAGTGGATGATATAGAAACATGATTAATAAACCC	502							
OY 2139 AGCTACAAATGATTTCCCTGTCATATGTCAAAAGAAATCTCAGAGATGTAGTGAGATTGGCC	2198							
Db 501 AGCTACAAATGATTTCCCTGTCATATGTCAAAAGAAATCTCAGAGATGTAGTGAGATTGGCC	442							
OY 2199 CTCAGAGAGACCTGACATTGCAATTGCAAAAGTCCAGAAAAAACAAGAGTATCGTT	2258							

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Db	381	GSCAATTCTCGGGTGTGTTTTGCACAGCACACCCCATCTCTTCACAGCAAAAGTCTCGG	322
Qy	2319	CCATTGAAGCTTGCAGACATTTCTGCACATGAGCCCTTTTACAGTACACAGCACACC	2378
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Qy	2379	ATGGAAGATTGTTGGTGGATATTTTCCGAAAGCTGGAGACTGAGGCAATGCGTTAACTAC	2438
Db	261	ATGGAGATCTGGTGTGATATTTTCCGAAAGCTGGAGACTGAGGCAATGCGTTAACTAC	202
Qy	2439	AATGGGCGCTCTCCATGGCATTTATACAAAAAAGATATCTCCGCGATATGAGCCACAG	2498
Db	201	AATGGGCGCTCTCTGGCATTTATACAAAAAAGATATCTCCGCGATATGAGCCACAG	142
Qy	2499	GCAAAACCAAGACCCCGCTCAATAATGTTCAACTGATCTCAGATGAGAGAGAGAG	2558
Db	141	GCAAAACCAAGACCCCGCTCAATAATGTTCAACTGATCTCAGATGAGAGAGAGAG	82
Qy	2559	AAACGGAAGAGAGACTTTATTTGTGTAATAGCACACTCTTAACTGAGGAGATCATCT	2618
Db	81	AAACGGAAGAGAGACTTTATTTGTGTAATAGCACACTCTTAACTGAGGAGATCATCT	22
Qy	2619	ACTTTTTCCTCCTTTTACA	2639
Db	21	ACTTTTAAATTCCTCTTTACA	1

LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	SOURCE	ORGANISM	REFERENCE	AUTHORS	TITLE	JOURNAL	COMMENT
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AU127528	NT2RP2 Homo sapiens cDNA clone NT2RP2001481 5', mRNA sequence.										
AU127528	AU127528										
AU127528.1	GI:10952244										
human.											
Homo sapiens											
Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi;											
Mammalia: Eutheria: Primates: Catarrhini: Homnidae: Homo.											
1 (bases 1 to 735)											
Ota,T., Nishikawa,T., Suzuki,Y., Ishii,S., Saito,K., Kawai,Y.,											
Yamamoto,J., Wakamatsu,A., Nakamura,Y., Nagai,T., Sugano,S. and											
Isogai,T.											
HRI human cDNA project											
Unpublished (2000)											
Contact: Takao Isogai											
Genomics Laboratory											
Helix Research Institute											
1532-3 Yana, Kisarazu, Chiba 292-0812, Japan											
Tel: 81-438-52-3975											
Fax: 81-438-52-3986											
Email: genomics@hri.co.jp											
HRI human cDNA project; 5'- & 3'-end one pass sequencing: Helix											
Research Institute: cDNA library construction: Department of											
Virology, Institute of Medical Science, University of Tokyo, and											
Helix Research Institute.											
Location/Qualifiers											
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cells after 2-weeks retinoic acid (RA) induction"											
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Query Match 18.2%; Score 660.6; DB 9; Length 735;  
 Best Local Similarity 95.8%; Pred. No. 1.6e-71;  
 Matches 704; Conservative 0; Mismatches 26; Indels 5; Gaps 3;

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 Db 61 AAATATGCCGTGTGTGTGTCAGCAGTCCACGAATTTGGAAGTATCCCGTTCGGA 120

QY 1367 AGTCATTATTTGTTGTCAGCATTACTGTGTATAGCCCTTCCCTATCCATACAGTAGGCT 1426  
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 Db 121 AGTCATTATTTGTTGTCAGCATTACTGTGTATAGCCCTTCCCTATCCATACAGTAGGCT 180

QY 1427 AAACACGAGTACTGATCAAGAAGCTTTTACAGACTGTGTCCCTGGAATCCCTCTTC 1486  
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 Db 181 AAACACGAGTACTGATCAAGAAGCTTTTACAGACTGTGTCCCTGGAATCCCTCTTC 240

QY 1487 TCTTTGACTACGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1546  
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 Db 241 TCTTTGACTACGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 300

QY 1547 TCCAGCAGCAGTGTGATATATTCAGCTATATGTCAGCTTATGCTGTCAGCTCATATTTAA 1606  
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 Db 301 TCCAGCAGCAGTGTGATATATTCAGCTATATGTCAGCTTATGCTGTCAGCTCATATTTAA 360

QY 1607 AATCATATGACATATTTACATTTTGGCATCAAGTTCATCAGGCTTTGTCATCCAG 1666  
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 Db 361 AATCATATGACATATTTACATTTTGGCATCAAGTTCATCAGGCTTTGTCATCCAG 420

QY 1667 CATGCCATTGAGCAGATGTCAGAGAGATGTCGGGATTCGGGAGCAGCTTGCTTA 1726  
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 Db 421 CATGCCATTGAGCAGATGTCAGAGAGATGTCGGGATTCGGGAGCAGCTTGCTTA 480

QY 1727 CTATCACCAGCAGTGTATCTTTAAGAGTGTGTGAGTGGGGCTGATTCATTAC 1786  
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 Db 481 CTATCACCAGCAGTGTATCTTTAAGAGTGTGTGAGTGGGGCTGATTCATTAC 540

QY 1787 ACCTCGCTTATGTCATGTTGGTGTGCTGTCATGCTTAGTGTGTGTCAGAGATGA 1845  
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 Db 541 ACCTCGCTTATGTCATGTTGGTGTGCTGTCATGCTTAGTGTGTGTCAGAGATGA 600

QY 1846 CTGCTCCTCTGCTGATTTTGTGAGCTTACTGAGAGGCTT-GAATATATTTGCC 1904  
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 Db 601 CTGCTCCTCTGCTGATTTTGTGAGCTTACTGAGAGGCTTGGGAATATATTTGCC 660

QY 1905 CTATGCTGTCAGTATGACAGTAAATGGTGGAGATGCCCTT--GCCAGGGAAGGC 1961  
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 Db 661 CTATGCTGTCAGTATGACAGTAAATGGTGGAGATGCCCTTGGGAGGGAAGGC 720

QY 1962 ATTATATGAGACAC 1976  
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 Db 721 ATTATATGAGACAC 735

RESULT 10  
 BO960629 891 bp mRNA linear EST 21-AUG-2002  
 BO960629  
 DEFINITION AGENCOURT\_8932469 NIH\_MGC\_94 Mus musculus cDNA clone IMAGE:6468812  
 5', mRNA sequence.  
 ACCESSION BO960629  
 VERSION BO960629.1 GI:22376107  
 KEYWORDS EST.  
 SOURCE house mouse.  
 ORGANISM Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathia; Muridae; Murinae; Mus.  
 REFERENCE 1 (bases 1 to 891)  
 AUTHORS NIH-MGC http://mgi.nci.nih.gov/  
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL Unpublished (1999).  
 COMMENT Contact: Robert Strausberg, Ph.D.  
 Email: rcs@pilot.nih.gov  
 Tissue Procurement: The Cepko Laboratory  
 CDNA Library Preparation: Life Technologies, Inc.  
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)  
 DNA Sequencing by: Agencourt Bioscience Corporation  
 Clone Distribution: MGC clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LNL at:  
 http://image.lnl.gov  
 plate: LLM13996 row: 0 column: 21  
 High quality sequence stop: 671.  
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 /tissue\_type="retina"  
 /lab\_host="DH10B (phage-resistant)"  
 /note="organ: eye; Vector: pCMV-SPORT6; Site:1: NotI;  
 Site:2: SalI; Cloned unidirectionally; oligo-dT primed.  
 Average insert size 3.3 kb. Library enriched for  
 full-length clones and constructed by Life Technologies.  
 Note: this is a NIH\_MGC Library."

BASE COUNT 278 a 183 c 209 g 218 t 3 others  
 ORIGIN

Query Match 18.2%; Score 660.6; DB 14; Length 891;  
 Best Local Similarity 85.8%; Pred. No. 1.4e-71;  
 Matches 757; Conservative 0; Mismatches 117; Indels 8; Gaps 2;

QY 1920 ATGACCAAGTAATGGTGTGAGATGCTTTGGAGGAGGAGCATTTATGAGCACACATC 1979  
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 Db 2 ATGACCAAGTAATGGTGTGAGATGCTTTGGAGGAGGAGCATTTATGAGCACACATC 61

QY 1980 CGATTAAATGATACCTTTCTTGATGCAAGAGAGATTTACTATCAACCTGGCT 2039  
 |||||  
 Db 62 CGATTAAATGATACCTTTCTTGATGCAAGAGATTTACTATCAACCTGGCT 121

QY 2040 GCTGACCTTATGACAGCTCGAAGAGATGATGCTTCTAGCTGTCTGACAGAGACAT 2099  
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 Db 122 GCTGACCTTATGACAGCTCGAAGAGATGATGCTTCTAGCTGTCTGACAGAGACAT 181

QY 2100 ATGACAGTGTATGATATGAAACATGATTAATGAACACAGCTCAATGATTTCTGTG 2159  
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 Db 182 ATGACAGTGTATGATATGAAACATGATTAATGAACACAGCTCAATGATTTCTGTG 241

QY 2160 ATATGTCAAAAGATCTCAGAGATTTAGTGGATTTGCCCTCAGAGAGACCTGACAT 2219  
 |||||  
 Db 242 ATATGTCAAAAGATCTCAGAGATTTAGTGGATTTGCCCTCAGAGAGACCTGACAT 301

QY 2220 GCATATGAAAGTGCAGGAAACAAAGAGATGCTGTCAGTGTGCTGCTGCTGCTT 2279  
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 Db 302 GCATATGAAAGTGCAGGAAACAAAGAGATGCTGTCAGTGTGCTGCTGCTGCTT 361

QY 2280 GCACAGCAGCCCATCTCTTCCAGCAGAAAGTCCCTGCTTGAAGCTTGAAGCAT 2339  
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 Db 362 GCACAGCAGCTATCTGCTTCCAGCAGAAAGTCCAGGCTTGAAGCAT 421

QY 2340 CTGATCATGAGCCCTTTTACAGTACAGACACACACCCCAATGAGATTTGCTGAT 2399  
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 Db 422 CTGATCATGAGCCCTTTTACAGTACAGACACACCCCAATGAGATTTGCTGAT 481

QY 2400 TTCCGAAGCTGTGAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 2459  
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 Db 482 TTCCGAAGCTGTGAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 541

QY 2460 ATACCAAAAAAGATATCTCCGATATGAGCCAGAGAGAGAGAGAGAGAGAGAGAGAGAT 2519  
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 Db 542 ATACCAAAAAAGATATCTCCGATATGAGCCAGAGAGAGAGAGAGAGAGAGAGAGAT 601

QY 2520 ATATATTTCAATCTCAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 2579



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Db 602 AATAGTTCACCTGAGTCCTGTAGATGAGACAGAGACAGACAGAGAAAGTTCCGT 661
QY 2580 TGTGAATAGCAGCACTCTTTTAACTGAGGAGGATCATCTACTTTTTCCTTAC 2639
Db 662 TGTGAATAGCAGCACTCTTTTAACTGAGGAGGATCATCTACTTTTTCCTTAC 721
QY 2640 AAAAAAGAAAGAAATATTAAGCCGGTTTGGCAACATGTTTGAATATATGCTGT 2699
Db 722 AAAAAAGAAAGAAATATTAAGCCGGTTTGGCAACATGTTTGAATATATGCTGT 779
QY 2700 GGAATGAGAGCTTGTGGGAGGAGAAAGAGAGAAAGAGATGAGTATTTCC 2759
Db 780 AGAGCAAGGAGATGTTGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 833
QY 2760 CCTTAACAGAAAGAGGATCATCTACTCTTATTTCTTGCAC 2801
Db 834 CTAGCTACCTGGAGACGANNATCATCTCATGTGCTTGCAC 875

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RESULT 11
AL042683 730 bp mRNA linear EST 29-FEB-2000
LOCUS DKEZp434P0121_r1 434 (synonym: htes3) Homo sapiens cDNA clone
DEFINITION DKEZp434P0121 5', mRNA sequence.
ACCESSION AL042683
VERSION AL042683.1 GI:5422132
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

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REFERENCE Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
AUTHORS Blum, H., Bauersachs, S., Mewes, H.W., Gassenhuber, J. and Wiemann, S.
TITLE EST (Blum, et al.)
JOURNAL Unpublished (1999)
COMMENT Contact: Blum H

```

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MIPS
Am Kioferspitz 18a D-82152 Martinsried, Germany
This is the 5' sequence of the clone insert
Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;
sequenced by LMU (Ludwig Maximilians University,
Munich/Germany) within the cDNA sequencing consortium of the German
Genome Project.
No sl sequence available.
This clone (DKFZp434P0121) is available at the RZPD in Berlin.
Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.

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FEATURES
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/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="DKFZp434P0121"
/clone_lib="434 (synonym: htes3)"
/tissue_type="testis"
/dev_stage="adult"
/lab_host="DH10B"
/Note="Vector: pSPORT1; Site_1: NotI, Site_2: SalI"

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BASE COUNT 221 a 166 c 164 g 177 t 2 others
ORIGIN
Query Match 18.2% Score 660; DB 9; Length 730;
Best Local Similarity 98.1%; Pred. No. 1.8e-71;
Matches 679; Conservative 0; Mismatches 10; Indels 3; Gaps 1;

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QY 2014 AAGATTCATCATACACCCCTGGCTGCTGAGCTTATGAGACCTCGAAGATGATCTC 2073
Db 39 AGCGGTCCTCATACACCCCTGGCTGCTGAGCTTATGAGACCTCGAAGATGATCTC 98
QY 2074 CCTTACTCTCTGACACAGGACATATATGACAGTATATAGAAACATGATTAATG 2133
Db 99 CCTTACTCTCTGACACAGGACATATATGACAGTATATAGAAACATGATTAATG 158

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QY 2134 AAACAGCTACATGATGATTTCTGTCATATATGTCAAAAGATCTGAGATTAGTGGAT 2193
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QY 2194 TTGCCCTCAGAGAGACCTGACATTTGCAATAGAAAGTCCAGAGAAACAGAGAGTA 2253
Db 219 TTGCCCTCAGAGAGACCTGACATTTGCAATAGAAAGTCCAGAGAAACAGAGAGTA 278
QY 2254 TCGTTGGCAGTTCTCGGGTGTGTTTGGACAGCAGCCCATCTCTTCCAGAGAAAGTC 2313
Db 279 TCGTTGGCAGTTCTCGGGTGTGTTTGGACAGCAGCCCATCTCTTCCAGAGAAAGTC 338
QY 2314 CTGGCCATTGAAGCTTCAACATCTTACATGAGCCCTTTTACAGTACAGACACA 2373
Db 339 CTGGCCATTGAAGCTTCAACATCTTACATGAGCCCTTTTACAGTACAGACACA 398
QY 2374 CCCCAGTGAAGATGTGTGATATTTTCCGAAAGCTGGAGTGAAGAGAGCTGTTAA 2433
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QY 2614 CATCTACTTTTCTCTCTCTTACAAAAAGAGAGG---AATATTAAGCGGGGTTT 2670
Db 639 CATCTACTTTTCTCTCTCTTACAAAAAGAGAGGAGATATTAAGAGCGGGGTTT 698
QY 2671 TTGCAACATGTTTGCATATATGCTGTGA 2702
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RESULT 12
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LOCUS nk75h01.s1 NCI-CGAP Schi Homo sapiens cDNA clone IMAGE:101937 3'
DEFINITION Similar to TR:G929680 G929680 CLC4.1; mRNA sequence.
ACCESSION AA551133
VERSION AA551133.1 GI:2321385
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

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REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
TITLE 1 (bases 1 to 673)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
JOURNAL Contact: Robert Strausberg, Ph.D.
COMMENT Email: cgapbs-r@mail.nih.gov
Emmett-Buck, M.D., Ph.D.
cDNA Library Preparation: Stratagene, Inc., David B. Kitzman,
Ph.D.

```

```

cDNA Library Arraying: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 1026 Std Error: 0.00
Seq primer: -40m13 fwd. ET from Amersham
High quality sequence stop: 401.

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Db 430 GCGAAGCAAAATCTCTCATTTGTCGCGTGGCTCAAAAACCAAAATGAAGCTTG 371  
QY 3370 GTTTAAAGGATTAAGATTTCTTTTGTCTTCTCTCAGACTTATGATATGAC 3429  
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Db 370 GTTAAAGGATTAAGATTTCTTTTGTCTTCTCTCAGACTTATGATATGAC 311  
QY 3430 GGGCTTATGCAAAATTTCTATTTCTAAACTACTATGATATGATGCTGTGAG 3489  
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Db 310 GGGCTTATGCAAAATTTCTATTTCTAAACTACTATGATATGATGCTGTGAG 251  
QY 3490 CATATTAATTAATAATGCTGCTGCTTACAGATAAGAGAAAAA 3534  
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Db 250 CATATTAATTAATAATGCTGCTGCTTACAGATAAGAGAAAAA 206  
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LOCUS t250808.x1 NCI CGAP\_Brn52 Homo sapiens cDNA clone IMAGE:2291990 3'  
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sequence.  
ACCESSION A1889196  
VERSION A1889196  
KEYWORDS GI:5594360  
SOURCE EST.  
ORGANISM human.  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
REFERENCE 1 (bases 1 to 684)  
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/cigap.  
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
JOURNAL Unpublished (1997)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: cgapbs-r@mail.nih.gov  
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael  
R. Emmert-Buck, M.D., Ph.D.  
CDNA Library Preparation: Life Technologies, Inc.  
CDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
www.bio.llnl.gov/dbp/image/image.html  
Seq primer: -40UP from Gibco  
High quality sequence stop: 406.  
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/lab\_host="DH10B"  
/note="Organ: Brain; Vector: pCMV-SPORT6; Site:1; Salt:  
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Site:2: Note: This library represents the normalized  
version of NCI-CGAP\_Brn52. Cloned unidirectionally.  
Primer: Oligo dT. Average insert size 1.19 kb. Tumor  
types include: meningioma, oligodendroglioma, astrocytoma  
(grade II), medulloblastoma, astrocytoma (grade IV).  
Constructed by Life Technologies."  
BASE COUNT 166 a 151 c 150 g 217 t  
ORIGIN  
Query Match 17.7%; Score 641.6; DB 9; Length 684;  
Best Local Similarity 98.5%; Pred: No. 3.3e-69;  
Matches 658; Conservative 0; Mismatches 9; Indels 1; Gaps 1;  
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Db 684 TTAATGATACCCCTTCTTGATGCAAAAGAAATTCATACACCCGCTGCT 625

QY 2043 GACGTTAGAGACCTCGAAGATGATCTCCCTTACGTCCTGACACAGACAATATG 2102  
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Db 624 GACGTTAGAGACCTCGAAGATGATCTCCCTTACGTCCTGACACAGACAATATG 565  
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Db 564 ACACTGATGATATAGAAACATGATTAATGAACACGATCAATGATTTCTGTGATA 505  
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Db 504 ATGTCAAAAGATTCAGAGATTTAGTGGATTTTCCCTCAGAAAGACCTGACAATTGCA 445  
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Db 444 ATAGAAAGTGCAGGAAAAAACAAGAGATATGTTGGAGCTTCTCGGGGTGTTTGGC 385  
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Db 204 AACAAAAAAGATATCTCTCCGCGCATATGCGCCAGACGCGCAACCAAGACCCGCTTCAAT 145  
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Db 84 TTGAATGACCAACTCTTTTAACTGAGGAGTCACTACTTTTTCCTCCCTTACAAA 25  
QY 2642 AAAAAA 2649  
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Db 24 AAAAAA 17  
RESULT 15  
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LOCUS AGENCOURT 7766456 NIH\_MGC\_68 Homo sapiens cDNA clone IMAGE:6022145  
DEFINITION 5', mRNA sequence.  
ACCESSION B0433763  
VERSION B0433763.1 GI:21172839  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
REFERENCE 1 (bases 1 to 1023)  
AUTHORS NIH-MGC http://mgc.ncbi.nlm.nih.gov/.  
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
JOURNAL Unpublished (1999)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: cgapbs-r@mail.nih.gov  
Tissue Procurement: DCTD/DTF/Gazdar  
CDNA Library Preparation: Life Technologies, Inc.  
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
DNA Sequencing by: Agencourt Bioscience Corporation  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
http://image.llnl.gov  
Plate: L1AM13228 row: P column: 18  
High quality sequence stop: 514.

## FEATURES

Location/Qualifiers

1. .1023

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone="IMAGE:6022145"

/clone\_lib="NIH-MGC\_68"

/issue\_type="large cell carcinoma"

/lab\_host="DH10B (phage-resistant)"

/note="Organ: lung; Vector: PCMV-SPORT6; Site\_1: NotI; Site\_2: SalI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.8 kb. Library constructed by Life Technologies."

BASE COUNT 270 a 209 c 221 g 319 t 4 others

ORIGIN

Query Match 17.6%; Score 638; DB 14; length 1023;

Best Local Similarity 96.3%; Pred. No. 6,9e-69;

Matches 676; Conservative 0; Mismatches 20; Indels 6; Gaps 2;

OY 574 GGTACACCCAGACAGTGTGTGGGATCTAATGAACAACATTTGAAGAGGATA 633  
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Db 1 GGTACACCCAGACAGTGTGTGGGATCTAATGAACAACATTTGAAGAGGATA 60  
OY 634 AATGCCAGAGTGAAGAACATGGGAGATATATCATAGTCAACAGAGGTCCTGTT 693  
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Db 61 AATGCCAGAGTGAAGAACATGGGAGATATATCATAGTCAACAGAGGTCCTGTT 120  
OY 694 CTTATATCATGACATACATATATATATATATATATATATATATATATATATAT 753  
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Db 121 CTTATATCATGACATACATATATATATATATATATATATATATATATATAT 180  
OY 754 TTTCCCTGGTAAAGTATTTGCTCCATATGCTGCTGCTGGAATTCAGAGATTAAA 813  
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Db 181 TTTCCCTGGTAAAGTATTTGCTCCATATGCTGCTGCTGGAATTCAGAGATTAAA 240  
OY 814 CTATTTTAGTGAATTCATCATCAGAGTCTAGTGGGAAATGACCTTAATGATTAAA 873  
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Db 241 CTATTTTAGTGAATTCATCATCAGAGTCTAGTGGGAAATGACCTTAATGATTAAA 300  
OY 874 CCATCACAATTAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 933  
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Db 301 CCATCACAATTAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360  
OY 934 TACATGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 993  
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Db 361 TACATGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420  
OY 994 ACGAAGCTAAAAAAGGAGGTGCTATCAGTGGCTGCTGCTGCTGCTGCTGCTGCT 1053  
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Db 421 ACGAAGCTAAAAAAGGAGGTGCTATCAGTGGCTGCTGCTGCTGCTGCTGCTGCT 480  
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Db 481 TTGGTGACCAATTGAGAGATCTTTTACCTGGAAGAGGTTAGCTATTTTCTC 540  
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Db 541 TCAAAACTTTATGAGATCTTTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600  
OY 1174 TCATTCATTTGTTGATGAGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1230  
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Db 601 TCATTCATTTGTTGATGAGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660  
OY 1231 GGTACCTTTTGAAGTCTTTTCTTTTATCTTTCTGAGGG 1269  
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Db 661 GGTACCTTTTGAAGTCTTTTCTTTTATCTTTCTGAGGG 702

Search completed: May 15, 2003, 06:45:02

Job time : 4496 secs